

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: STREETWORKS

Report Number: P636803

Luminaire Tested: **IFLD-S-SA3D-940-U-77-VI**

Issue Date: 01/17/2023

### Test Information

Test Method: LM-79-08  
Report Number: P636803  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA3D-940-U-77-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens and Visor  
Light Source: (48) 4000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 12954.3 lumens  
Efficiency: N/A  
Efficacy: 70.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B4 - U0 - G2

Input Watts (W): 184.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



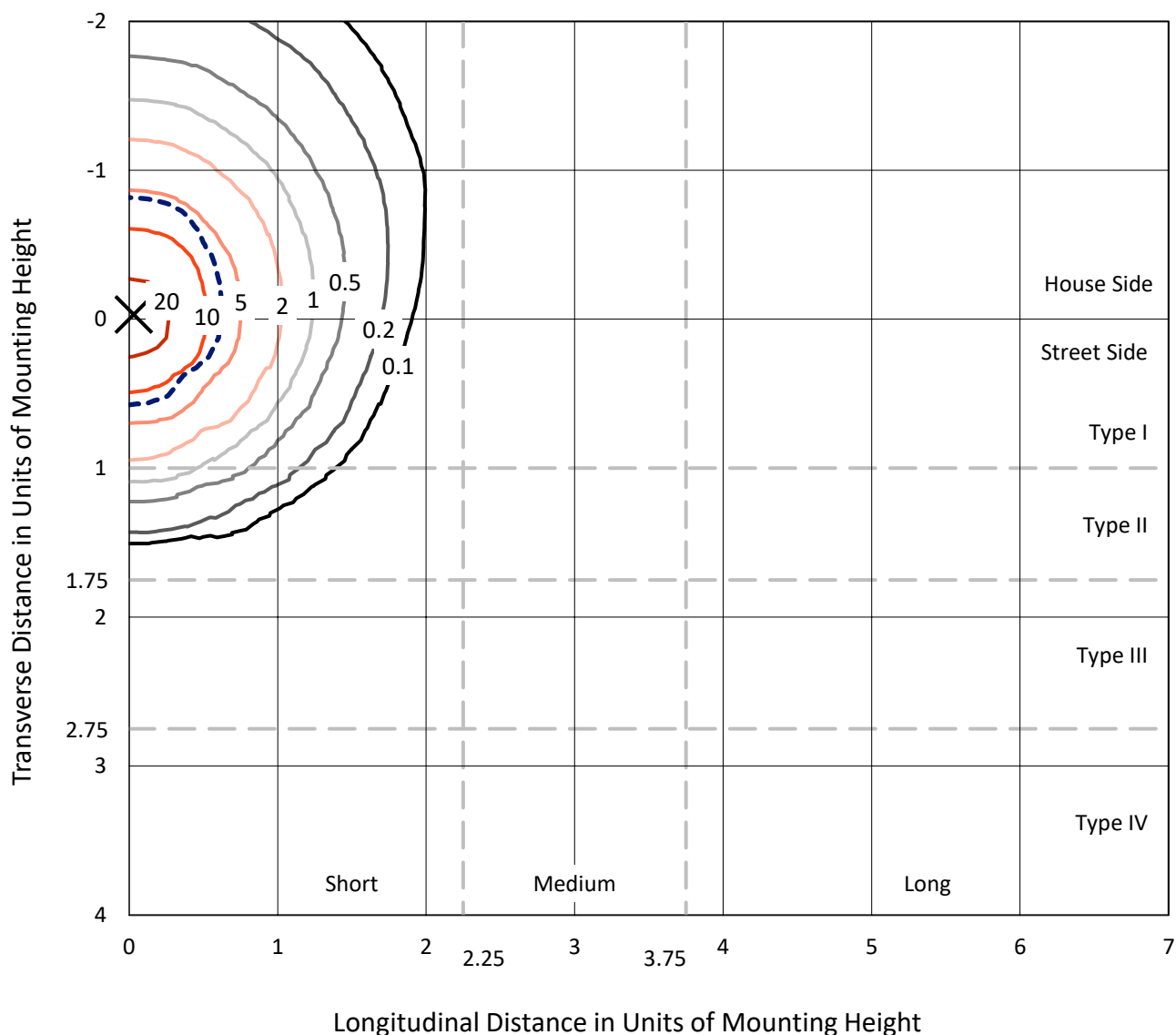
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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

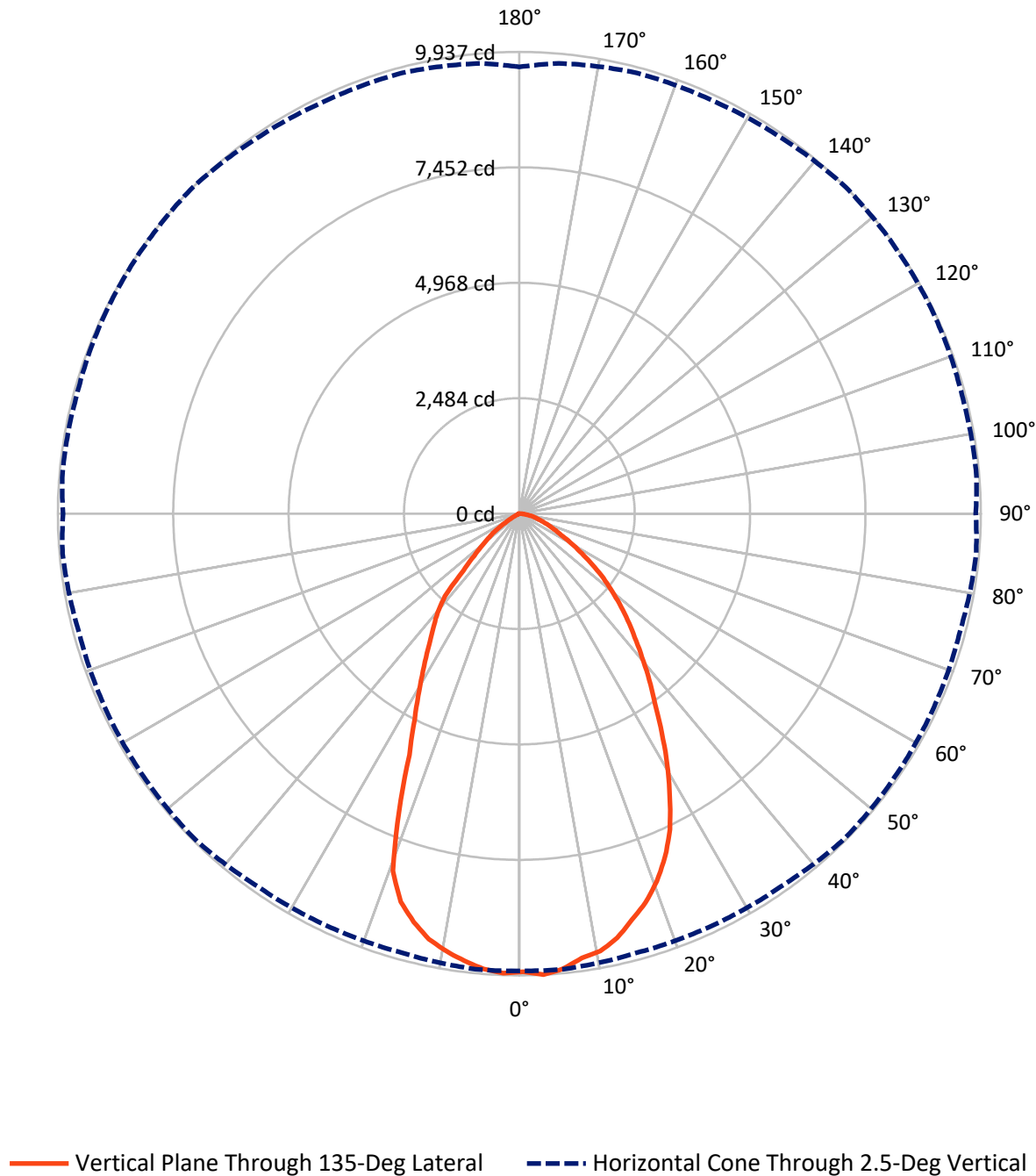


Based on 20 foot mounting height. Maximum calculated value = 24.6 fc

Type I - Short - N/A

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## Luminous Intensity Polar Plot



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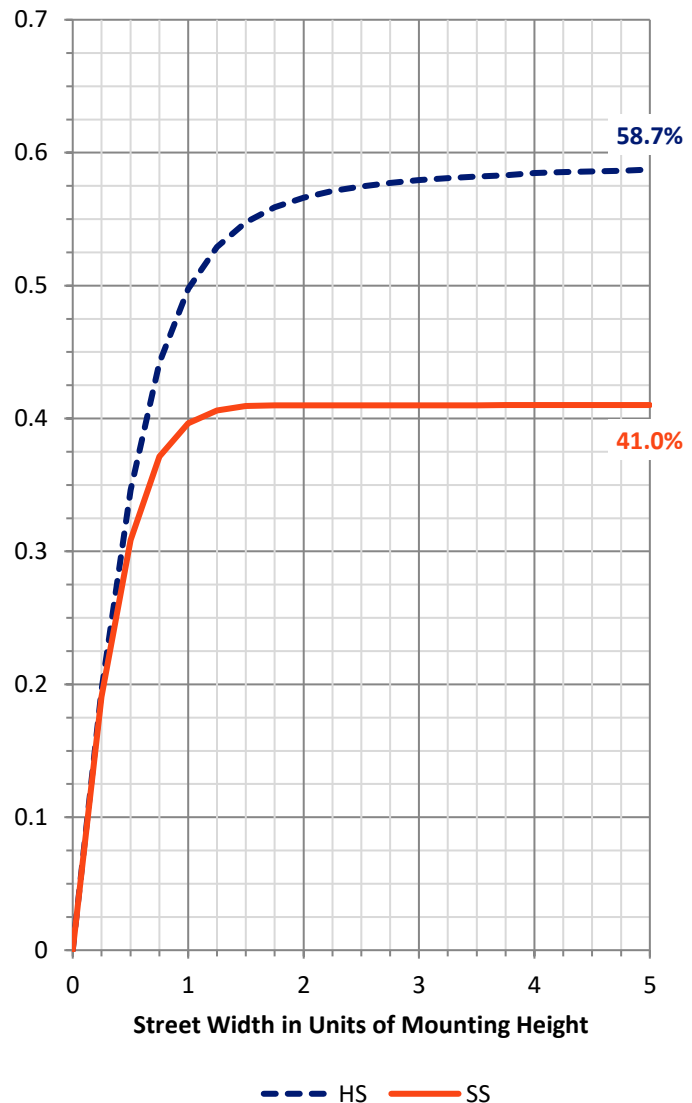
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 7672.2   | 0.0    | 7672.2  |
|                    | % Fixture | 59.2     | 0.0    | 59.2    |
| <b>Street Side</b> | Lumens    | 5282.1   | 0.0    | 5282.1  |
|                    | % Fixture | 40.8     | 0.0    | 40.8    |
| <b>Total</b>       | Lumens    | 12954.3  | 0.0    | 12954.3 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 924.5   | 7.1       |
| 10°-20°   | 2479.2  | 19.1      |
| 20°-30°   | 3023.5  | 23.3      |
| 30°-40°   | 2760.5  | 21.3      |
| 40°-50°   | 1994.9  | 15.4      |
| 50°-60°   | 1089.2  | 8.4       |
| 60°-70°   | 450.4   | 3.5       |
| 70°-80°   | 182.4   | 1.4       |
| 80°-90°   | 49.6    | 0.4       |
| 90°-100°  | 0.0     | 0.0       |
| 100°-110° | 0.0     | 0.0       |
| 110°-120° | 0.0     | 0.0       |
| 120°-130° | 0.0     | 0.0       |
| 130°-140° | 0.0     | 0.0       |
| 140°-150° | 0.0     | 0.0       |
| 150°-160° | 0.0     | 0.0       |
| 160°-170° | 0.0     | 0.0       |
| 170°-180° | 0.0     | 0.0       |
| 0°-90°    | 12954.3 | 100.0     |
| 0°-180°   | 12954.3 | 100.0     |

**Coefficient of Utilization**



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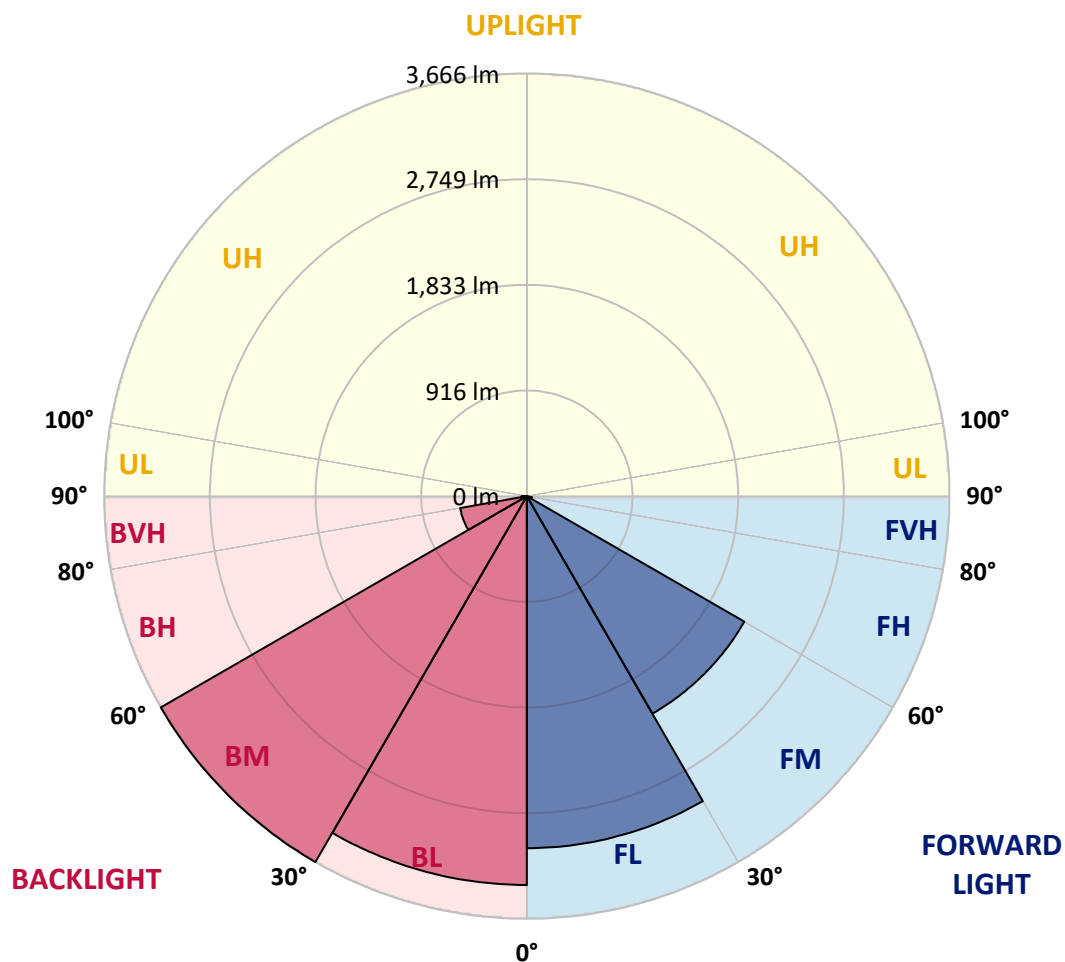
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 3053.8 | 23.6      |                         |      |         |
| FM   | (30°-60°)   | 2178.7 | 16.8      |                         |      |         |
| FH   | (60°-80°)   | 45.6   | 0.4       |                         |      | G0/660  |
| FVH  | (80°-90°)   | 4.0    | 0.0       |                         |      | G0/10   |
| BL   | (0°-30°)    | 3373.5 | 26.0      | B4/5000                 |      |         |
| BM   | (30°-60°)   | 3666.0 | 28.3      | B3/5000                 |      |         |
| BH   | (60°-80°)   | 587.1  | 4.5       | B2/1000                 |      | G2/1000 |
| BVH  | (80°-90°)   | 45.6   | 0.4       |                         |      | G1/100  |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B4-U0-G2**

Type I Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 9858.2 | 9858.2 | 9858.2 | 9858.2 | 9858.2 | 9858.2 | 9858.2 | 9858.2 | 9858.2 | 9858.2 |
| 2.5°  | 9840.0 | 9852.7 | 9783.4 | 9790.7 | 9803.5 | 9896.5 | 9872.8 | 9850.9 | 9819.9 | 9872.8 |
| 5°    | 9827.2 | 9834.5 | 9761.5 | 9736.0 | 9746.9 | 9830.8 | 9754.2 | 9754.2 | 9746.9 | 9737.8 |
| 7.5°  | 9728.7 | 9732.3 | 9675.8 | 9630.2 | 9659.4 | 9697.7 | 9641.1 | 9668.5 | 9628.3 | 9659.4 |
| 10°   | 9580.9 | 9557.2 | 9489.7 | 9476.9 | 9509.8 | 9546.3 | 9507.9 | 9533.5 | 9497.0 | 9520.7 |
| 12.5° | 9363.8 | 9327.3 | 9272.6 | 9256.2 | 9312.8 | 9362.0 | 9331.0 | 9316.4 | 9269.0 | 9327.3 |
| 15°   | 8526.5 | 8499.1 | 8623.2 | 8840.3 | 9035.5 | 9077.4 | 9044.6 | 9059.2 | 8960.7 | 8977.1 |
| 17.5° | 7017.9 | 6966.8 | 7100.0 | 7614.4 | 8347.7 | 8734.5 | 8705.3 | 8610.4 | 8464.5 | 8497.3 |
| 20°   | 6377.6 | 6363.0 | 6348.4 | 6470.6 | 6983.2 | 8156.2 | 8196.3 | 7955.5 | 7747.6 | 7702.0 |
| 22.5° | 6016.4 | 6010.9 | 5996.3 | 6023.6 | 6158.6 | 6912.1 | 7371.8 | 7149.2 | 7010.6 | 6997.8 |
| 25°   | 5686.2 | 5677.0 | 5633.3 | 5667.9 | 5667.9 | 5711.7 | 6300.9 | 6435.9 | 6313.7 | 6299.1 |
| 27.5° | 5350.5 | 5334.1 | 5326.8 | 5343.2 | 5259.3 | 4963.8 | 5113.4 | 5771.9 | 5708.1 | 5711.7 |
| 30°   | 4987.5 | 4982.0 | 4961.9 | 4996.6 | 4737.6 | 4370.9 | 4276.0 | 5169.9 | 5182.7 | 5179.0 |
| 32.5° | 4447.5 | 4471.2 | 4562.4 | 4600.7 | 4173.9 | 3871.0 | 3712.3 | 4473.0 | 4733.9 | 4728.4 |
| 35°   | 3230.7 | 3230.7 | 3528.1 | 4080.8 | 3657.6 | 3429.6 | 3343.8 | 3792.6 | 4290.6 | 4308.9 |
| 37.5° | 2656.1 | 2665.2 | 2723.6 | 2975.3 | 3155.9 | 3075.7 | 3050.1 | 3192.4 | 3721.5 | 3750.6 |
| 40°   | 2389.8 | 2389.8 | 2389.8 | 2285.8 | 2280.3 | 2771.0 | 2756.4 | 2710.8 | 3214.3 | 3278.2 |
| 42.5° | 2147.1 | 2152.6 | 2156.3 | 1893.6 | 1747.6 | 2395.2 | 2362.4 | 2293.1 | 2760.1 | 2834.9 |
| 45°   | 1897.2 | 1906.3 | 1917.3 | 1583.4 | 1519.6 | 1723.9 | 1999.4 | 1922.8 | 2311.3 | 2408.0 |
| 47.5° | 1158.4 | 1173.0 | 1421.1 | 1342.6 | 1349.9 | 1329.9 | 1630.9 | 1618.1 | 1895.4 | 2032.2 |
| 50°   | 782.6  | 788.1  | 811.8  | 851.9  | 1158.4 | 1045.3 | 1154.7 | 1339.0 | 1439.3 | 1647.3 |
| 52.5° | 656.7  | 665.8  | 607.5  | 552.7  | 760.7  | 817.3  | 806.3  | 994.2  | 1034.3 | 1291.6 |
| 55°   | 461.5  | 490.7  | 463.4  | 457.9  | 432.3  | 634.8  | 611.1  | 764.4  | 789.9  | 981.4  |
| 57.5° | 47.4   | 54.7   | 94.9   | 341.1  | 282.8  | 359.4  | 436.0  | 560.0  | 585.6  | 724.2  |
| 60°   | 3.6    | 3.6    | 9.1    | 47.4   | 206.1  | 215.3  | 301.0  | 344.8  | 394.0  | 505.3  |
| 62.5° | 0.0    | 1.8    | 3.6    | 7.3    | 32.8   | 114.9  | 151.4  | 180.6  | 237.2  | 326.5  |
| 65°   | 0.0    | 0.0    | 1.8    | 5.5    | 7.3    | 43.8   | 58.4   | 94.9   | 129.5  | 202.5  |
| 67.5° | 0.0    | 0.0    | 1.8    | 3.6    | 5.5    | 10.9   | 20.1   | 34.7   | 69.3   | 114.9  |
| 70°   | 0.0    | 0.0    | 1.8    | 3.6    | 5.5    | 9.1    | 14.6   | 21.9   | 31.0   | 62.0   |
| 72.5° | 0.0    | 0.0    | 1.8    | 1.8    | 3.6    | 9.1    | 10.9   | 14.6   | 21.9   | 31.0   |
| 75°   | 0.0    | 0.0    | 1.8    | 1.8    | 5.5    | 10.9   | 9.1    | 10.9   | 14.6   | 20.1   |
| 77.5° | 0.0    | 0.0    | 1.8    | 3.6    | 5.5    | 10.9   | 9.1    | 10.9   | 10.9   | 12.8   |
| 80°   | 0.0    | 0.0    | 1.8    | 3.6    | 7.3    | 12.8   | 10.9   | 10.9   | 9.1    | 9.1    |
| 82.5° | 0.0    | 0.0    | 1.8    | 5.5    | 7.3    | 16.4   | 16.4   | 14.6   | 7.3    | 5.5    |
| 85°   | 0.0    | 0.0    | 3.6    | 7.3    | 10.9   | 18.2   | 18.2   | 14.6   | 5.5    | 3.6    |
| 87.5° | 0.0    | 0.0    | 3.6    | 5.5    | 9.1    | 12.8   | 18.2   | 14.6   | 5.5    | 1.8    |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

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**CANDELA DISTRIBUTION (continued):**

| 90°    |       | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   |
|--------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 9858.2 | 0°    | 9858.2 | 9858.2 | 9858.2 | 9858.2 | 9858.2 | 9858.2 | 9858.2 | 9858.2 | 9858.2 |
| 9827.2 | 2.5°  | 9876.4 | 9865.5 | 9902.0 | 9916.6 | 9936.6 | 9860.0 | 9812.6 | 9814.4 | 9726.9 |
| 9715.9 | 5°    | 9774.3 | 9776.1 | 9823.5 | 9819.9 | 9840.0 | 9798.0 | 9779.8 | 9748.7 | 9672.1 |
| 9575.4 | 7.5°  | 9644.8 | 9628.3 | 9674.0 | 9708.6 | 9657.5 | 9686.7 | 9644.8 | 9659.4 | 9613.8 |
| 9451.4 | 10°   | 9544.4 | 9506.1 | 9548.1 | 9571.8 | 9573.6 | 9544.4 | 9504.3 | 9466.0 | 9449.6 |
| 9258.0 | 12.5° | 9321.9 | 9272.6 | 9343.8 | 9376.6 | 9371.1 | 9314.6 | 9269.0 | 9278.1 | 9225.2 |
| 8918.7 | 15°   | 9015.4 | 9017.2 | 9068.3 | 9099.3 | 9070.1 | 9057.4 | 9061.0 | 9039.1 | 8993.5 |
| 8449.9 | 17.5° | 8546.6 | 8573.9 | 8708.9 | 8783.7 | 8800.1 | 8774.6 | 8761.8 | 8736.3 | 8690.7 |
| 7702.0 | 20°   | 7765.8 | 7930.0 | 8170.8 | 8402.5 | 8448.1 | 8440.8 | 8395.2 | 8384.2 | 8358.7 |
| 6961.3 | 22.5° | 7079.9 | 7202.1 | 7481.2 | 7842.4 | 8028.5 | 8046.7 | 7992.0 | 7975.6 | 7948.2 |
| 6299.1 | 25°   | 6370.3 | 6501.6 | 6753.3 | 7145.6 | 7530.5 | 7608.9 | 7599.8 | 7550.5 | 7521.4 |
| 5711.7 | 27.5° | 5771.9 | 5903.2 | 6131.3 | 6485.2 | 6897.5 | 7149.2 | 7172.9 | 7094.5 | 7092.7 |
| 5188.1 | 30°   | 5231.9 | 5412.5 | 5585.8 | 5874.1 | 6273.6 | 6651.2 | 6691.3 | 6636.6 | 6642.1 |
| 4708.4 | 32.5° | 4808.7 | 4958.3 | 5106.1 | 5299.4 | 5631.4 | 6071.1 | 6228.0 | 6176.9 | 6156.8 |
| 4308.9 | 35°   | 4376.4 | 4478.5 | 4629.9 | 4806.9 | 5033.1 | 5469.1 | 5740.9 | 5702.6 | 5682.5 |
| 3768.9 | 37.5° | 3883.8 | 4058.9 | 4168.4 | 4367.2 | 4544.2 | 4890.8 | 5273.9 | 5268.4 | 5226.5 |
| 3309.2 | 40°   | 3378.5 | 3562.7 | 3728.8 | 3929.4 | 4066.2 | 4341.7 | 4766.7 | 4764.9 | 4770.4 |
| 2833.0 | 42.5° | 2920.6 | 3090.3 | 3290.9 | 3509.8 | 3641.2 | 3841.9 | 4297.9 | 4323.5 | 4354.5 |
| 2440.8 | 45°   | 2506.5 | 2659.7 | 2845.8 | 3112.2 | 3270.9 | 3385.8 | 3790.8 | 3907.5 | 3905.7 |
| 2090.6 | 47.5° | 2134.4 | 2278.5 | 2435.4 | 2694.4 | 2896.9 | 3000.9 | 3336.5 | 3502.5 | 3491.6 |
| 1714.8 | 50°   | 1791.4 | 1919.1 | 2083.3 | 2271.2 | 2543.0 | 2634.2 | 2884.1 | 3103.0 | 3086.6 |
| 1366.4 | 52.5° | 1441.2 | 1618.1 | 1756.7 | 1928.2 | 2214.6 | 2304.0 | 2497.4 | 2710.8 | 2698.1 |
| 1025.2 | 55°   | 1123.7 | 1295.2 | 1463.0 | 1610.8 | 1851.6 | 1984.8 | 2123.4 | 2342.3 | 2338.7 |
| 802.7  | 57.5° | 850.1  | 1038.0 | 1196.7 | 1337.2 | 1528.7 | 1692.9 | 1804.2 | 2003.0 | 2028.6 |
| 549.1  | 60°   | 629.4  | 773.5  | 945.0  | 1101.8 | 1253.3 | 1422.9 | 1497.7 | 1692.9 | 1703.8 |
| 375.8  | 62.5° | 428.7  | 587.4  | 755.2  | 897.5  | 1010.6 | 1185.8 | 1253.3 | 1413.8 | 1433.9 |
| 240.8  | 65°   | 297.4  | 399.5  | 591.1  | 693.2  | 831.9  | 981.4  | 1048.9 | 1176.6 | 1216.8 |
| 138.6  | 67.5° | 197.0  | 284.6  | 461.5  | 554.6  | 691.4  | 793.5  | 879.3  | 983.3  | 1027.0 |
| 87.6   | 70°   | 107.6  | 209.8  | 330.2  | 437.8  | 556.4  | 654.9  | 738.8  | 822.7  | 861.0  |
| 40.1   | 72.5° | 73.0   | 140.5  | 229.9  | 346.6  | 448.8  | 545.4  | 620.2  | 682.3  | 684.1  |
| 23.7   | 75°   | 36.5   | 94.9   | 175.1  | 268.2  | 350.3  | 445.1  | 512.6  | 549.1  | 505.3  |
| 14.6   | 77.5° | 21.9   | 69.3   | 142.3  | 215.3  | 284.6  | 359.4  | 397.7  | 417.8  | 346.6  |
| 10.9   | 80°   | 12.8   | 49.3   | 111.3  | 171.5  | 197.0  | 264.5  | 301.0  | 306.5  | 231.7  |
| 7.3    | 82.5° | 9.1    | 36.5   | 87.6   | 125.9  | 120.4  | 186.1  | 226.2  | 218.9  | 147.8  |
| 5.5    | 85°   | 5.5    | 25.5   | 54.7   | 78.4   | 73.0   | 122.2  | 131.3  | 135.0  | 85.7   |
| 3.6    | 87.5° | 3.6    | 14.6   | 29.2   | 42.0   | 34.7   | 52.9   | 52.9   | 63.8   | 42.0   |
| 0.0    | 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |



| 180°   |
|--------|
| 9858.2 |
| 9613.8 |
| 9653.9 |
| 9537.1 |
| 9376.6 |
| 9179.6 |
| 8947.9 |
| 8670.6 |
| 8300.3 |
| 7940.9 |
| 7490.3 |
| 7089.0 |
| 6614.7 |
| 6158.6 |
| 5655.2 |
| 5261.1 |
| 4770.4 |
| 4338.0 |
| 3909.4 |
| 3495.2 |
| 3101.2 |
| 2725.4 |
| 2347.8 |
| 2017.6 |
| 1720.3 |
| 1437.5 |
| 1207.6 |
| 1021.6 |
| 846.4  |
| 667.7  |
| 472.5  |
| 333.8  |
| 217.1  |
| 136.8  |
| 78.4   |
| 36.5   |
| 0.0    |

(END OF REPORT)